Figure 1

```
                                exon 3
TAGAAACAGC AAGATGACAA TATAATGTCT AAGTAGTGAC ATGTTTTTGC ACATTTCCAG
                                                        putative ORF

CCCCTTTAAA TATCCACACA CACAGGAAGC ACAAAAGGAA GCACAGAGAT CCCTGGGAGA
                          A

AATGCCCGGC CGCCATCTTG GGTCATCGAT GAGCCTCGCC CTGTGCCTGG TCCCGCTTGT
                                exon 4                           B
GAGGGAAGGA CATTAGAAAA TGAATTGATG TGTTCCTTAA AGGATGGGCA GGAAAACAGA
                          C
```

Figure 2

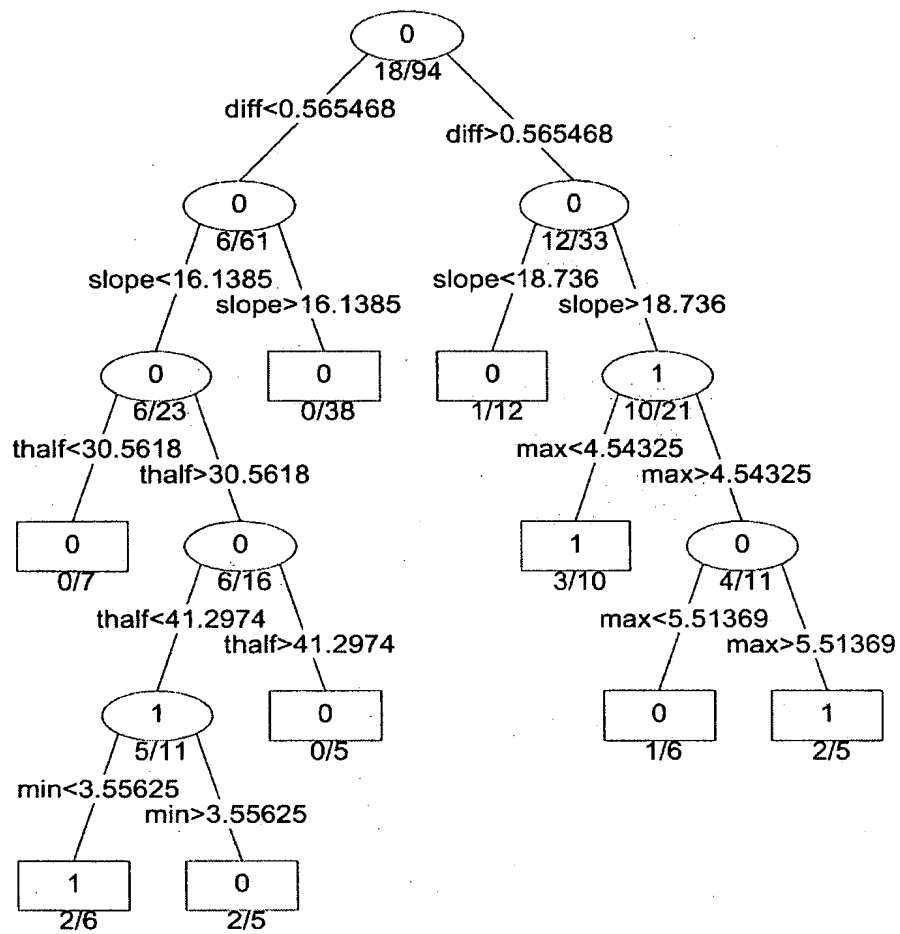prune.misclass(b94.dup1.pca.tr, best = 9)
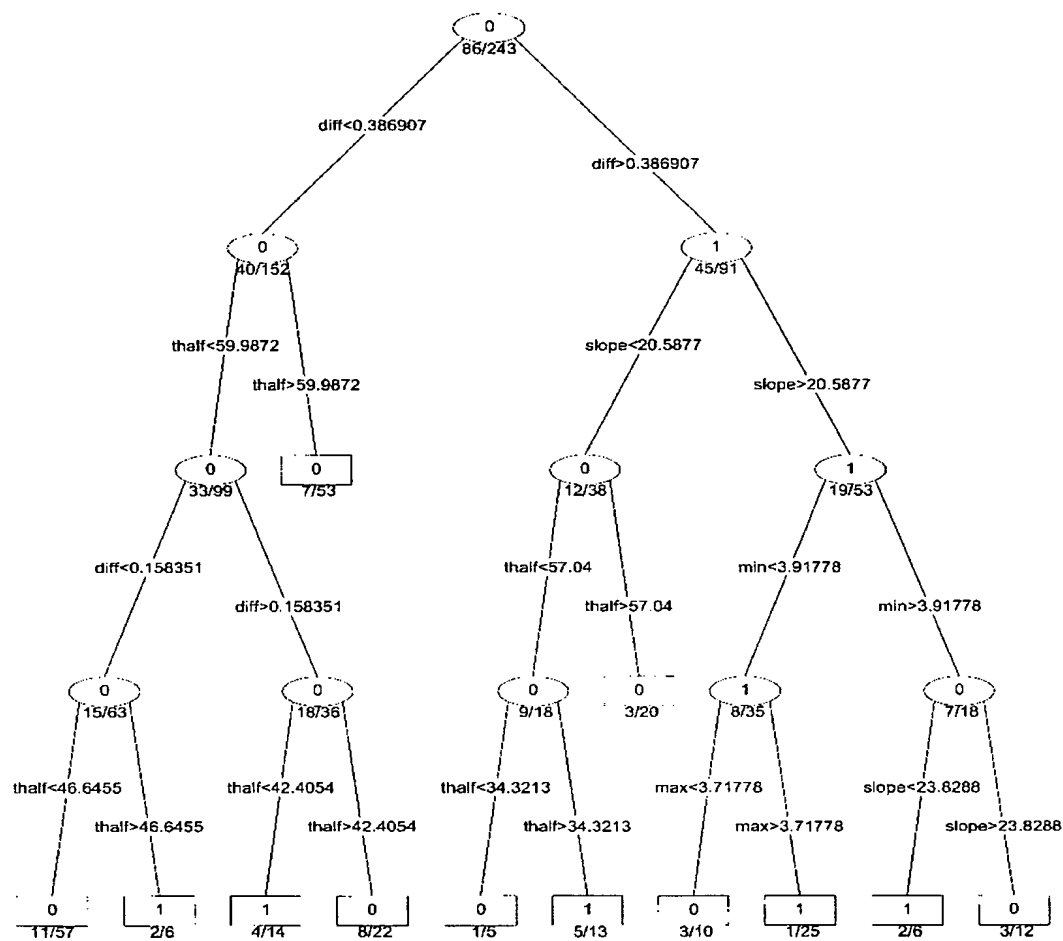
Figure 3

prune.misclass(b243.dup1.pca.tr, best = 12)

Figure 4

prune.misclass(b106.dup1.pca.tr, best = 11)

0
46/106

diff<0.706403

diff>0.706403

0
25/75

1
10/31

diff<0.531388

diff>0.531388

slope<19.1674

slope>19.1674

0
25/69

0
0/6

0
8/16

1
2/15

thalf<25.4165

thalf>25.4165

min<3.45069

min>3.45069

0
1/10

0
24/59

1
3/10

0
1/6

min<4.05856

min>4.05856

0
19/38

0
5/21

thalf<46.2591

thalf>46.2591

1
4/13

0
10/25

thalf<59.5188

thalf>59.5188

0
0/5

0
10/20

max<3.11674

max>3.11674

1
1/5

0
6/15

ratio<1.09162

ratio>1.09162

0
2/9

1
2/6